

ABSTRACT

A hybrid fiber coax (HFC) network management method and system for use in a broadband network having a hybrid fiber coax (HFC) network provided with network elements operable for communicating telephony, data, and video signals with customer-premises equipment (CPE). The network elements include a host digital terminal (HDT) for communicating the telephony signals, a cable modem termination system (CMTS) for communicating the data signals, and video equipment for communicating the video signals; a fiber optics network connecting the HDT, CMTS, and video equipment to a fiber optics node; and a coax cable network connecting the fiber optics node to the CPE. The HFC network management method and system include a service, design, and inventory (SDI) system having a database operable for storing data indicative of an inventory of the network elements and the CPE in the HFC network, for storing data indicative of configuration of the network elements and the CPE in the HFC network, and for storing data indicative of assigned capacity of the HFC network based on the configuration of the network elements and the CPE.